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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	To enable Bridge Assurance on the device, use the spanning-tree bridge assurance command. To disable Bridge Assurance, use the no form of this command. Spanning-tree bridge assurance no spanning-tree bridge assurance Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 115.	The spanning-tree bridge assurance command enables bridge assurance on all ports with a port type of network. Bridge assurance protects against unidirectional link failure, other software failure, and devices that quit running a spanning tree algorithm. Bridge assurance is available only on spanning tree network ports on point-to-point links. Both ends of the link must have bridge assurance enabled. If the device on one side of the link has bridge assurance enabled and the device on the other side either does not support bridge assurance or does not have it enabled, the bridge assurance enabled port is blocked. The no spanning-tree bridge assurance command disables bridge assurance. The spanning-tree bridge assurance and default spanning-tree bridge assurance commands restore the default behavior by removing the no spanning-tree bridge assurance command from running-config. Only the no form of this command is visible in running-config. Platform all Command Mode Global Configuration Command Syntax spanning-tree bridge assurance no spanning-tree bridge assurance default spanning-tree bridge assurance default spanning-tree bridge assurance Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 967.

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	spanning-t	ree guard	spanning-tree guard
		To enable or disable Loop Guard or Root Guard, use the spanning-tree guard command. To re the default settings, use the no form of this command. spanning-tree guard {loop root none} no spanning-tree guard	The spanning-tree guard command enables root guard or loop guard on the configuration mode interface. The spanning-tree loopguard default command configures the global loop guard setting. Root guard prevents a port from becoming a root or blocked port. A root guard port that receives a superior BPDU transitions to the root-inconsistent (blocked) state.
	Syntax Description	Ioop	 Loop guard protects against loops resulting from unidirectional link failures on point-to-point links by preventing non-designated ports from becoming designated ports. When loop guard is enabled, a root or blocked port transitions to loop-inconsistent (blocked) state if it stops receiving BPDUs from its designated port. The port returns to its prior state when it receives a BPDU. The no spanning-tree guard and default spanning-tree guard commands sets the configuration mode interface to the global loop guard mode by removing the spanning-tree guard statement from
	Defaults Command Modes	Disabled Interface configuration	running-config. The spanning-tree guard none command disables loop guard and root guard on the interface, overriding the global setting. Platform all Command Mode Interface-Ethernet Configuration
	SupportedUserRoles	network-admin vdc-admin	Interface-Port-Channel Configuration Command Syntax spanning-tree guard PORT MODE no spanning-tree guard default spanning-tree guard
	Command History	Release Modification 4.0 This command was introduced.	Parameters • PORT_MODE the port mode. Options include: — loop enables loop guard on the interface.
	Usage Guidelines	You cannot enable Loop Guard if Root Guard is enabled, although the device accepts the commensured Loop Guard on spanning tree edge ports. This command does not require a license.	and to — root enables root guard on the interface. — none disables root guard and loop guard. Examples
Cisco NX-OS 6.2 Effective date of	Examples	This example shows how to enable Root Guard: switch(config-if)# spanning-tree guard root switch(config-if)#	 This command enables root guard on Ethernet 5 interface. switch(config) #interface ethernet 5 switch(config-if-Et5) #spanning-tree guard rook switch(config-if-Et5) #
registration: 11/13/2014	Cisco Nexus (2013), at 11	s 7000 Series NX-OS Interfaces Command Reference	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1005.
Cisco NX-OS 6.2		Guard as a default on all ports of a given bridge, use the spanning-tree loopg ad. To disable Loop Guard, use the no form of this command.	• spanning-tree loopguard default command enables loop guard as a default on all switch ports
Effective date of registration: 11/13/2014	Cisco Nexus	s 7000 Series NX-OS Interfaces Command Reference 21.	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 996.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	spanning-tree loopguard default To enable Loop Guard as a default on all ports of a given bridge, use the spanning-tree loopguard default command. To disable Loop Guard, use the no form of this command. spanning-tree loopguard default no spanning-tree loopguard default Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 121.	Spanning-tree loopguard default The spanning-tree loopguard default command configures the global loop guard setting as enabled. Ports not covered by a spanning-tree guard command use the global loop guard setting. Loop guard prevents blocked or root ports from becoming a designated port due to failures resulting in a unidirectional link. The spanning-tree guard interface configuration statement overrides the global setting for a specified interface. The default global loop guard setting is disabled. The no spanning-tree loopguard default and default spanning-tree loopguard default commands restore the global loop guard setting of disabled by removing the spanning-tree loopguard default command from running-config. Platform all Command Mode Global Configuration Command Syntax spanning-tree loopguard default no spanning-tree loopguard default default spanning-tree loopguard default swanning-tree loopguard default switch(config)#spanning-tree loopguard default switch(config)#spanning-tree loopguard default switch(config)#spanning-tree loopguard default switch(config)#

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	spanning-tree mst configuration	spanning-tree mst configuration
	To enter the Multiple Spanning Tree (MST) configuration submode, use the spanning-tree mst configuration command. To return to the default settings, use the no form of this command. spanning-tree mst configuration no spanning-tree mst configuration	The spanning-tree mst configuration command places the switch in MST-configuration mode, which is the group change mode where MST region parameters are configured. Changes made in a group change mode are saved by leaving the mode through the exit command or by entering another configuration mode. To discard changes from the current edit session, leave the mode with the abort command.
		These commands are available in MST-configuration mode:
	Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 124.	 abort (mst-configuration mode) exit (mst-configuration mode) instance name (mst-configuration mode) revision (mst-configuration mode) show (mst-configuration mode)
		The no spanning-tree mst configuration and default spanning-tree mst configuration commands restore the MST default configuration.
		Platform all Command Mode Global Configuration
Cisco NX-OS 6.2		Command Syntax spanning-tree mst configuration no spanning-tree mst configuration
Effective date of		default spanning-tree mst configuration
registration: 11/13/2014		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1012.
	Related Commands	The instance command inserts an entry into the VLAN-to-instance map that associates a set of VLANs to an MST instance. In addition to defining the MST topology, the VLAN-to-instance map is one of three parameters, along with the MST name and revision number, that identifies the switch's MST region. The no instance command removes specified entries from the VLAN-to-instance map. If the command does not provide a VLAN list, all entries are removed for the specified instance. The no instance and
	show spanning-tree Displays information about the MST protocol mst	default instance commands function identically. Platform all Command Mode MST-Configuration
Cisco NX-OS 6.2 Effective date of	Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 125.	Command Syntax instance mst_inst vlans v_range no instance mst_inst [vlans v_range] no default instance mst_inst [vlans v_range]
registration: 11/13/2014		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 978.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Related Command show spanning-tree summary spanning-tree beddiguard spanning-tree port type edge Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 148.	spanning-tree bpduguard command controls BPDU guard on the configuration mode interface. A BPDU guard-enabled port is disabled when it receives a BPDU packet. Disabled ports differ from blocked ports in that they are re-enabled only through manual intervention. The BPDU guard default setting for portfast ports is configured by the spanning-tree portfast bpduguard default command. BPDU guard is disabled by default on all non-portfast ports. • spanning-tree bpduguard enable enables BPDU guard on the interface. • spanning-tree bpduguard disable disables BPDU guard on the interface. The no spanning-tree bpduguard and default spanning-tree bpduguard commands restore the global BPDU guard setting on the configuration mode interface by removing the corresponding spanning-tree bpduguard command from running-config. Platform all Command Mode Interface-Ethernet Configuration Command Syntax spanning-tree bpduguard GUARD_ACTION no spanning-tree bpduguard default spanning-tree bpduguard Parameters • GUARD_ACTION BPDU guard setting. Options include: — enabled BPDU guard is enabled on the interface. — disabled BPDU guard is disabled on the interface. Examples • These commands enable BPDU guard on Ethernet interface 5. switch(config)#interface ethernet 5 switch(config-if-Et5)#spanning-tree bpduguard enabled switch(config-if-Et5)#spanning-tree bpduguard enabled switch(config-if-Et5)#spanning-tree bpduguard enabled

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	When disabling spanning tree on a VLAN using the no spanning-tree vlan vlan-id command ensure that all switches and bridges in the VLAN have spanning tree disabled. You cannot disable spanning tree on some switches and bridges in a VLAN and leave it enabled on other switches and bridges in the same VLAN because switches and bridges with spanning tree enabled have incomplete information about the physical topology of the network. We do not recommend disabling spanning tree even in a topology that is free of physical loops. Spanning tree is a safeguard against misconfigurations and cabling errors. Do not disable spanning tree in a VLAN without ensuring that there are no physical loops present in the VLAN Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 159.	Warning Disabling spanning tree is not recommended, even in topologies free of physical loops. Spanning tree guards against configuration mistakes and cabling errors. When disabling VLAN, ensure that there are no physical loops in the VLAN. Important When disabling spanning tree on a VLAN ensure that all switches and bridges in the network disable spanning tree for the same VLAN. Disabling spanning tree on a subset of switches and bridges in a VLAN may have unexpected results because switches and bridges running spanning tree will have incomplete information regarding the network's physical topology. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1023.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	To set the native VLAN for private VLAN promiscuous and isolated trunk ports, use the switchport private-vlan trunk native vlan command. To return to the default value, use the no form of this command. switchport private-vlan trunk native vlan vlan id no switchport private-vlan trunk native vlan vlan id Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 177.	The switchport trunk native vlan command specifies the trunk mode native VLAN for the configuration mode interface. Interfaces in trunk mode associate untagged frames with the native VLAN. Trunk mode interfaces can also be configured to drop untagged frames. The default native VLAN for all interfaces is VLAN 1. The no switchport trunk native vlan and default switchport trunk native vlan commands restore VLAN 1 as the trunk mode native VLAN to the configuration mode interface by removing the corresponding switchport trunk native vlan command from running-config. Platform all Command Mode Interface-Ethernet Configuration Interface-Port-channel Configuration Command Syntax switchport trunk native vlan VLAN ID no switchport trunk native vlan default switchport trunk native vlan default switchport trunk native vlan Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 800.

Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco	Parameters • EDIT_ACTION modifications to the VLAN list. — v_range Creates VLAN list from v_range. — add v_range Adds specified VLANs to current list. — all VLAN list contains all VLANs. — except v_range VLAN list contains all VLANs except those specified. — none VLAN list is empty (no VLANs). — remove v_range Removes specified VLANs from current list. Valid v_range formats include number (1 to 4094), range, or comma-delimited list of numbers and ranges. Arista User Manual v. 4.14.3F − Rev. 2 (October 2, 2014), at 751.
	Syntax Description add (Optional) Adds a VLAN to the current list. except (Optional) Specifies all VLANs except a particular VLAN. none (Optional) Specifies no VLANs. remove (Optional) Removes the VLANs from the current list. vlan-id VLAN ID. The range is from 2 to 1001. Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 179.	
	To define an area as an Open Shortest Path First (OSPF) stub area, use the area stub command. To remove the area, use the no form of this command. area area-id stub [no-summary] no area area-id stub [no-summary] stub [no-summary] area-id Identifier for the OSPF stub area. Specify as either a positive integer value or an IP address. no-summary (Optional) Prevents an Area Border Router (ABR) from sending summary link advertisements into the stub area.	no area (OSPFv3) The no area command removes all area configuration commands for the specified OSPFv3 area. Commands removed by the no area command include: area nssa range stub Area settings can be removed individually; refer to the command description page of the desired command for details. Platform all Command Mode Router-OSPF3 Configuration
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 42.	Command Syntax no area area_id [TYPE] default area area_id [TYPE] Parameters • area_id area number. Valid formats: integer <1 to 4294967295> or dotted decimal <0.0.0.1 to 255.255.255.255> Area 0 (or 0.0.0.0) is not configurable; it is always normal. Running-config stores value in dotted decimal notation. • TYPE area type. Values include: — nssa — nssa translate type 7 always sets p-bit when sending type 7 LSAs — stub — stub — stub no-summary Prevents ABRs from sending summary link advertisements into the area. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1521.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	This example shows how to clear all OSPF neighbor details for all OSPF instances: Switch# clear ip ospf neighbor * This example shows how to clear all OSPF neighbor details for all neighbors on Ethernet interface 1/2 for OSPF instance 202: Switch# clear ip ospf 202 neighbor ethernet 1/2 Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 112.			Examples • This command resets all OSPF neighbor statistics. switch#clear ip ospf neighbor * switch## • This command resets the OSPF neighbor statistics for the specified Ethernet 3 interface. switch#clear ip ospf neighbor ethernet 3 switch## Arista User Manual v. 4.14.3F - Rev. 2 (October 2, 2014), at 1420.	
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	To generate a default external route into an Open Shortest Path First (OSPF) routing domain, use the default-information originate command. To disable this feature, use the no form of this command.		al route into an Open Shortest Path First (OSPF) routing domain, use the ate command. To disable this feature, use the no form of this command. riginate [always] route-map map-name] n originate [always] [route-map map-name] (Optional) Specifies to always advertise the default route regardless of whether the route table has a default route. (Optional) Specifies to advertise the default route if the route map is satisfied. The map-name argument can be any alphanumeric string up to 63 characters.	Examples • These commands will always advertise the OSPFv2 default route regardless of whether the switch has a default route configured. switch(config)#router ospf 1 switch(config-router-ospf)#default-information originate always switch(config-router-ospf)#show active router ospf 1 default-information originate always • These commands advertise a default route with a metric of 100 and an external metric type of 1 if a default route is configured. switch(config)#router ospf 1 switch((config-router-ospf)#default-information originate metric 100 metric-type 1 Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1423.	

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	To generate a default external route into an Open Shortest Path First version 3 (OSPFv3) routing domain use the default-information originate command. To disable this feature, use the no form of this command. default-information originate [always] [froute-map map name] no default-information originate [always] [route-map map-name]		al route into an Open Shortest Path First version 3 (OSPFv3) routing domain, in originate command. To disable this feature, use the no form of this riginate [always] [route-map map name] no riginate [always] [route-map map-name] (Optional) Specifies to always advertise the default route regardless.	Examples • These commands will always advertise the OSPFv3 default route regardless of whether the switch has a default route configured. switch(config) #ipv6 router ospf 1 switch(config-router-ospf3) #default-information originate always switch(config-router-ospf3) #show active ipv6 router ospf 1 default-information originate always • These commands configures OSPF area 1 as metric of 100 for the default route with an external metric type of Type 1. switch(config) #ipv6 router ospf 1
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco Nexus (2013), at 44		satisfied. The map-name argument can be any alphanumeric string up to 63 characters. C-OS Unicast Routing Command Reference	switch(config-router-ospf3)#default-information originate metric 100 metric-type 1 switch(config-router-ospf3)#show active ipv6 router ospf 1 default-information originate metric 100 metric-type 1 switch(config-router-ospf3)# Arista User Manual v. 4.14.3F - Rev. 2 (October 2, 2014), at 1506.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Syntax Description international internation	whe use of two administrative distances—internal and external—for the Enhanced Interior ay Routing Protocol (EIGRP) that could provide a better route to a node, use the distance and. To reset to default, use the no form of this command. Internal-distance external-distance addistance Administrative distance for EIGRP internal routes. Internal routes are routes that are learned from another entity within the same autonomous system (AS). The distance can be a value from 1 to 255. The default value is 90. Administrative distance for EIGRP external routes. External routes are routes for which the best path is learned from a source external to this autonomous system. The distance can be a value from 1 to 255. The default value is 170. Addistance: 90 al-distance: 170 O Series NX-OS Unicast Routing Command Reference	The distance bgp command assigns an administrative distance to routes that the switch learns through BGP. Routers use administrative distances to select a route when two protocols provide routing information to the same destination. Distance values range from 1 to 255; lower distance values correspond to higher reliability. BGP routing tables do not include routes with a distance of 255. The distance command assigns distance values to external, internal, and local BGP routes: • external; External routes are routes for which the best path is learned from a neighbor external to the autonomous system. Default distance is 200. • internal: Internal routes are routes learned from a BGP entity within the same autonomous system. Default distance is 200. • local: Local routes are networks listed with a network router configuration command for that router or for networks that are redistributed from another process. Default distance is 200. The no distance bgp and default distance bgp commands restore the default administrative distances by removing the distance bgp command from running-config. Platform all Command Mode Router-BGP Configuration Command Syntax distance bgp external_dist [INTERNAL_LOCAL] no distance bgp external_dist [INTERNAL_LOCAL] no distance bgp (External_dist (INTERNAL_LOCAL)) no distance bgp (External_di	

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	When you configure the ip command on an interface, the handling of proxy Address Resolution Protocol (ARP) requests changes (unless proxy ARP was disabled). Hosts send ARP requests to map an IP address to a MAC address. The GLBP gateway intercepts the ARP requests and replies to the ARP requests on behalf of the connected nodes. If a forwarder in the GLBP group is active, proxy ARP requests are answered using the MAC address of the first active forwarder in the group. If no forwarder is active, proxy ARP responses are suppressed. Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 256.	Displaying ARP Entries The show ip arp command displays ARP cache entries that map an IP address to a corresponding MAC address. The table displays addresses by their host names when the command includes the resolve argument. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1225.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Expanded Community Lists Expanded community lists are used to filter communities using a regular expression. Regular expressions are used to configure patterns to match community attributes. The order for matching using the * or + character is longest construct first. Nested constructs are matched from the outside in. Concatenated constructs are matched beginning at the left side. If a regular expression can match two different parts of an input string, it will match the earliest part first. Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 274.	The order for matching using the * or + character is longest construct first. Nested constructs are matched from the outside in. Concatenated constructs are matched beginning at the left side. If a regular expression can match two different parts of an input string, it matches the earliest part first. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 107.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Static routes have a default administrative distance of 1. If you want a dynamic routing protocol to take precidence over a static route, you must configure the static route preference argument to be greater than the administrative distance of the dynamic routingprotocol. For example, routes derived with Enhanced Interior Gateway Routing Protocol (EIGRP) have a default administrative distance of 100. To have a static route that would be overridden by an EIGRP dynamic route, specify an administrative distance greater than 100. Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 337.	Static routes have a default administrative distance of 1. Assigning a higher administrative distance to a static route configures it to be overridden by dynamic routing data. For example, a static route with a distance value of 200 is overridden by OSPF intra-area routes with a default distance of 110. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1226.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	To configure the routing level for an instance of the Intermediate System (IS-IS) routing process, use the is-type command. To reset the default value, use the no form of this command. is-type [level-1 level-1-2 level-2] no is-type (level-1 level-1-2 level-2] Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 407.	The is-type command configures the routing level for an instance of the IS-IS routing instance. Platform all Command Mode Router-IS-IS Configuration Command Syntax is-type LAYER_VALUE Parameters LAYER_VALUE layer value. Options include: level-1 The switch operates as a Level-1 (intra-area) router. level-2 The switch operates as a Level-2 (inter-area) router. Example These commands configure Level 2 routing on interface Ethernet 5. switch(config)#router isis Osiris switch(config-router-isis)#1s-type level-2 switch(config-router-isis)# Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1691.

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	Te specify the number of Intermediate System-to-Intermediate System (IS-IS) hello packets a neigh must miss before the pouter should declare the adjacency as down, useline is is hello-multiplier command. To restore the default value, use the no form of this command. isis hello-multiplier multiplier [level-1] [level-2]	The isis hello-multiplier command specifies the number of IS-IS hello packets a neighbor must miss before the device should declare the adjacency as down. Each hello packet contains a hold time. The hold time informs the receiving devices how long to wait without seeing another hello from the sending device before considering the sending device down. The isis hello-multiplier command is used to calculate the hold time announced in hello packets by multiplying this number with the configured isis hello-interval.	
	Integer value, Range; 3 to 1000, Default: 3.	The no isis hello-multiplier and default isis hello-multiplier commands restore the default hello interval of 3 on the configuration mode interface by removing the isis hello-multiplier command from running-config. Platform all Command Mode Interface-Ethernet Configuration Interface-Loopback Configuration Interface-Port-channel Configuration Interface-VLAN Configuration	
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 423.	Command Syntax isis hello-multiplier factor no isis hello-multiplier default isis hello-multiplier Parameters • factor hello multiplier Values range from 3 to 100; default is 3 Arista User Manual v. 4.14.3F - Rev. 2 (October 2, 2014), at 1685.	

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	isis priority	isis priority	
	ISIS PRIORITY To configure the priority of designated routers, use the isis priority command in interface configuration mode. To reset the default priority, use the no form of this command. isis priority number-value [level-1 level-2] no isis priority [level-1 level-2] Syntax Description Priority of a router and is a number from 0 to 127. The default value is 64. level-1 (Optional) Sets the priority for Level 1 independently.	The isis priority command configures IS-IS router priority for the configuration mode interface. The priority is used to determine which device will be the Designated Intermediate System (DIS). The device with the highest priority will become the DIS. In [IS-IS, there is no backup designated router. Setting the priority to 0 lowers the chance of this system becoming the DIS, but does not prevent it. If a device with a higher priority comes on line, it will take over the role from the current DIS. The no isis priority and default isis priority commands restore the default priority (64) on the configuration mode interface. Platform all Command Mode Interface-Ethernet Configuration Interface-Loopback Configuration Interface-Port-channel Configuration	
	Command Modes Interface configuration SupportedUserRoles network admin vdc-admin Command History Release Modification 4.0(1) This command was introduced.	Interface-VLAN Configuration Command Syntax isis priority priority_level no isis priority default isis priority Parameters priority_level priority level. Value ranges from 0 to 127. Default value is 64.	
Cisco NX-OS 6.2 Effective date of	Usage Guidelines Priorities can be configured for Level 1 and Level 2 independently. Specifying the level-1 or level-2 keyword resets priority only for Level 1 or Level 2 routing, respectively. The priority is used to determine which router on a LAN will be the designated router or Designated Intermediate System (DIS). The priorities are advertised in the hello packets. The router with the highest priority will become the DIS. In Intermediate System-to-Intermediate System (IS-IS), there is no backup designated router. Setting the priority to 0 lowers the chance of this system becoming the DIS, but does not prevent it. If a router with a higher priority comes on line, it will take over the role from the current DIS. In the case of equal priorities, the highest MAC address breaks the tie. This command requires the Enterprise Services license.	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1690.	
registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 433.		

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	log-adjace	ncy-changes (IS-IS)	log-adjacency-changes (IS-IS)	
	Syntax Description	To enable the router to send a syslog message when an Intermediate System-to-Intermediate System Intradomain Routing Protocol (IS IS) neighbor goes up or down, use the log-adjacency-changes configuration mode command. To disable this function, use the no form of this command. log-adjacency-changes no log-adjacency-changes This command has no arguments or keywords.	The log-adjacency-changes command configures the switch to send syslog messages either when it detects IS-IS link state changes or when it detects that a neighbor has gone up or down. Log message sending is disabled by default. The default option is active when running-config does not contain any form of the command. Entering the command in any form replaces the previous command state in running-config. Platform all Command Mode Router-IS-IS Configuration Command Syntax log-adjacency-changes	
	Command Modes	Router configuration VRF configuration	no log-adjacency-changes default log-adjacency-changes Examples These commands configure the switch to send a syslog message when a neighbor goes up or down	
	SupportedUserRoles network admin		 These commands configure the switch to send a syslog message when a neighbor goes up or down switch(config) #router isis Osiris switch(config-router-isis) #log-adjacency-changes switch(config-router-isis) # 	
	Command History	Release Modification 4.0(1) This command was introduced.	 These commands configure not to log the peer changes. switch(config)#router 1sis Osiris switch(config-router-isis)#no log-adjacency-changes switch(config-router-isis)# 	
	Usage Guidelines	The log-adjacency-changes command is on by default but only up/down (full/down) events are reported.	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1692.	
	Examples	This example configures the router to send a syslog message when an IS IS neighbor state changes: switch(config)+ router isis switch(config-router)+ log-adjacency-changes		
Cisco NX-OS 6.2	Related Commands	Command Description feature (sis Enables [S-IS on the router. router (sis Enables [S-IS.		
Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 138.			

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max-m	tric router-Isa	(OSPF)	max-metric router-lsa (OSPFv2)
Defaults Command Mod SupportedUser	To configure the Ope routers do not prefer the max-metric router form of this comman max-metric router wait-for bg no max-metric router law include-stub on-startup seconds wait-for bgp fag summary-lsa max-metric-value Originates router line Router configuration Router VRF configuration Route	the Shortest Path First (OSPF) protocol to advertise a maximum metric so that other the router as an intermediate hop in their shortest path first (SPF) calculations, use ter-lsa command. To (disable the advertisement of a maximum metric, use the nod. Iter-lsa [external-lsa [max-metric-value]] [include-stub] [on-startup] [seconds lp tag]] [summary-lsa [max-metric-value]] [include-stub] [on-startup] seconds gp tag]] [summary-lsa [max-metric-value]] [include-stub] [on-startup] seconds gp tag]] [summary-lsa [max-metric-value]]] Specifies the external LSA's. (Optional) Specifies the max-metric values for external LSA's. The range is 1-65535. Advertises the max-metric for stub links. (Optional) Configures the router to advertise a maximum metric at startup. (Optional) Maximum metric (in seconds) that is advertised for the specified time interval. The configurable range is from 5 to 86400 seconds. The default is 600 seconds. (Optional) [Advertises a maximum metric until Border Gateway Protocol] [BGP) routing tables have converged or the default timer has expired. The default timer is 600 seconds. Specifies the summary LSA's. (Optional) Specifies the max-metric value for summary LSAs. The range is from 1-65535.	The max-metric router-Isa command allows the OSPF protocol to advertise a maximum metric so that other routers do not prefer the router as an intermediate hop in their SPF calculations. The no max-metric router-Isa and default max-metric router-Isa commands disable the advertisement of a maximum metric. Platform all Command Mode Router-OSPF Configuration Command Syntax max-metric router-Isa [EXTERNAL] [STUB] [STARTUP] [SUMMARY]

Copyright Registration Information	Cisco	## Switch>show ip bgp neighbors 10.14.4.4 advertised-routes regexp _64502_ BGP routing table information for VRF default Router identifier 172.24.78.191, local AS number 64498 Route status codes: s - suppressed, * - valid, > - active, E - ECMP head, e - ECMP
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	BGP table version is 10, local router ID is 3.3.3.3 Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist Origin codes: i - IGP, e - EGP, ? - incomplete - multipath Network	
Cisco NX-OS 6.2	To display Border Gateway Protocol (BGP) neighbors, use the show ip bgp neighbors command show ip bgp neighbors [addr] advertised-routes flap-statistics paths received-routes routes advertised dampened received] prefix vrf all vrf-name advertised-routes (Optional) Displays all the routes advertised to this neighbor. flap-statistics (Optional) Displays flap statistics for the routes received from this neighbor. paths (Optional) Displays AS paths learned from this neighbor. received-routes (Optional) Displays all the routes received from this neighbor. routes (Optional) Displays all the routes received or advertised to or from this neighbor. advertised (Optional) Displays all the routes advertised for this neighbor. routes (Optional) Displays all the routes received from this neighbor. dampened (Optional) Displays all the routes received from this neighbor. received (Optional) Displays all the routes received from this neighbor. prefix (Optional) Piv6 prefix. The format is x.x.x.x/length. vrf vrf-name (Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 63 characters. all (Optional) Specifies all VRF.	The show ip bgp neighbors command displays Border Gateway Protocol (BGP) and TCP session data for a specified IPv4 BGP neighbor, or for all IPv4 BGP neighbors if an address is not included. Platform all Command Mode EXEC Command Syntax show 1p bgp neighbors [NEIGHBOR_ADDR] [VRF_INSTANCE] Parameters • NEIGHBOR_ADDR location of neighbors. Options include: — <no parameter=""> command displays information for all IPv4 BGP neighbors. — ipv4 addr command displays information for specified neighbor. • VRF_INSTANCE specifies VRF instances. — <no parameter=""> displays routing table for context-active VRF. — vrf urf_name displays routing table for the specified VRF. — vrf all displays routing table for default VRFs. — vrf default displays routing table for default VRF.</no></no>
Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 466.	

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Use the ip ospf database command to display information about different OSPF LSAs. When the link state advertisement is describing a network, the link-state-id argument can take one of two forms: • The network's IP address such as Type 3 summary link advertisements and autonomous system external link advertisements). • A derived address obtained from the link state ID. (Note that masking a network links advertisement's link state ID with the network's subnet mask yields the network's IP address.) • When the link state advertisement is describing a router, the link state ID is always the described router's OSPF router ID. • When an autonomous system external advertisement (LS Type = 5) is describing a default route, its link state ID is set to Default Destination (0.0.0.0). This command requires the Enterprise Services license. Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 520.	 linkstate_id Network segment described by the LSA (dotted decimal notation). Value depends on the LSA type. When the LSA describes a network, the linkstate-id argument is one of the following:

Copyright Registration Information	Cisco	Arista
Registration	To adjust the Routing Information Protocol (RIP) network timers, use the timers basic command. To restore the default timers, use the no form of this command. timers basic update invalid holddown flash no timers basic Syntax Description	timers basic (RIP) The timers basic command configures the update interval, the expiration time, and the deletion time for routes received and sent through RIP. The command requires value declaration of all values. The update time is the interval between unsolicited route responses. The default is 30 seconds. The expiration time is initialized when a route is established and any time an update is received for the route. If the specified period elapses from the last time the route update was received, then the route is marked as inaccessible and advertised as unreachable. However, the route forwards packets until the deletion time expires. The default value is 180 seconds. The deletion time is initialized when the expiration time has elapsed. On initialization of the deletion time, the route is no longer valid; however, it is retained in the routing table for a short time so that neighbors can be notified that the route has been dropped. Upon expiration of the deletion time, the route is removed from the routing table. The default is 120 seconds. The no timers basic and default timers basic commands return the timer values to their default values by removing the timers-basic command from running-config. Platform all Command Mode Router-RIP Configuration Command Syntax timers basic default timers basic default timers basic
Effective date of registration: 11/13/2014		 deletion_time interval after expiration when route is removed from routing table. Parameter values are in seconds and range from 5 to 2,147,483,647. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1671.

Copyright Registration Information	Cisco		Arista	
	timers Isa-	arrival (OSPF)	timers Isa arrival (OSPFv2)	
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Syntax Description Defaults Gommand Modes SupportedUserHoles Command History Usage Guidelines Examples	To bet the minimum interval in which the software accepts the same link state advertisement (LSA) from Open Shortest Path First (OSPF) neighbors, use the timers Isa-arrival command. It inverses Isa-arrival milliseconds mo timers Isa-arrival milliseconds Minimum delay (in milliseconds) that must pass between acceptance of the same LSA arriving from neighbors. The range is from 10 to 600,000 milliseconds. The default is 1000 milliseconds. Router configuration VRF configuration Release Modification 4.0(1) This command to configure the minimum interval for accepting the same LSA. The same LSA is an LSA instance that contains the same LSA ID number, LSA type, and advertising router ID. If an instance of the same LSA arrives sooner than the interval that is set, the software drops the LSA. We recommend that you keep the milliseconds value of the timers Isa-arrival command less than or equal to the neighbors' hold interval value of the timers throttle Isa command. This command requires the Enterprise Services license. This example shows how to set the minimum interval for accepting the same LSA at 2000 milliseconds: society (configuration) and the configuration of the timers throttle Isa command. This command requires the Enterprise Services license.	The timers is a arrival command sets the minimum interval in which the switch accepts the same link-state advertisement (LSA) from OSPF) neighbors. The not timers is a arrival and default timers is a arrival commands restore the default maximum OSPFV2 path calculation interval to five seconds by removing the timers is a arrival command from running-config. Platform all Command Mode Router-OSPF Configuration Command Syntax timers is a arrival is time no timers is a arrival Parameters Isa time oSPFv2 minimum interval (seconds). Values range from 1 to 600000 milliseconds is 1000 milliseconds. Example This command sets the minimum interval timer to ten milliseconds. switch(config) #router ospf is switch(config-router-ospf) #timers is a arrival in switch(config-router-ospf) # Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1469.	

Copyright Registration Information	Cisco	Arista	
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	This example shows how to configure a router configured with the start, hold, and maximum interval values for the timers throttle spf command set at 5, 1000, and 90,000 milliseconds: switch(config-router)# timers throttle spf 5 1000 90000 Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 1033-34.	• This command displays a switch configured with the start, hold, and maximum interval values for the timers throttle spf command set at 5, 1,000, and 20,000 milliseconds, respectively. switch (config) #router ospf 6 switch (config-router-ospf) #timers spf 5 100 20000 switch (config-router-ospf) # Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1472.	
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	When using route reflectors, an AS is divided into clusters. A cluster consists of one or more route reflectors and a group of clients to which they re-advertise route information. Multiple route reflectors can be configured in the same cluster to increase redundancy and avoid a single point of failure. Each route reflector has a cluster ID. If the cluster has a single route reflector, the cluster ID is its router ID. If a cluster has multiple route reflectors, a 4-byte cluster ID is assigned to all route reflectors in the cluster. All of them must be configured with the same cluster ID so that they can recognize updates from other route reflectors in the same cluster. The bgp cluster-id command configures the cluster ID in a cluster with multiple route reflectors. Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 730.	cluster-id {cluster-id cluster-ip-addr}—Configures the Route Reflector Cluster-ID (router, vrf). Range: 1 to 4294967295. You can enter the cluster identification as a 32-bit quantity or as an IP address. To remove the cluster ID, use the no form of this command. Together, a route reflector and its clients form a cluster. When a single route reflector is deployed in a cluster, the cluster is identified by the router ID of the route reflector. The cluster-id command is used to assign a cluster ID to a route reflector when the cluster has one or more route reflectors. Multiple route reflectors are deployed in a cluster to increase redundancy and avoid a single point of failure. When multiple route reflectors are configured in a cluster, the same cluster ID is assigned to all route reflectors. This allows all route reflectors in the cluster to recognize updates from peers in the same cluster and reduces the number of updates that need to be stored in BGP routing tables. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1549.	
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	You can use local Proxy ARP to enable a device to respond to ARP requests for IP addresses within a subnet where normally no routing is required. When you enable local Proxy ARP, ARP responds to all ARP requests for IP addresses within the subnet and forwards all traffic between hosts in the subnet. Use this feature only on subnets where hosts are intentionally prevented from communicating directly by the configuration on the device to which they are connected. Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 2-5.	The ip local-proxy-arp command enables local proxy ARP (Address Resolution Protocol) on the configuration mode interface. Local proxy ARP programs the switch to respond to ARP requests for IP addresses within a subnet where routing is not normally required. A typical local proxy arp application is supporting isolated private VLANs that communicate with each other by routing packets. The no ip local-proxy-arp and default ip local-proxy-arp commands disable local proxy ARP on the configuration mode interface by removing the corresponding ip local-proxy-arp command from running-config. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1276.	

Copyright Registration Information		Cisco	Arista
Cisco NX-OS 6.2	ipv6 nd managed-config-flag	Sets the managed address configuration flag in IPv6 router advertisements. Sets the maximum transmission unit (MTU) size of IPv6 packets sent on an interface.	Router Advertisment Flag Configuration The ipv6 nd managed-config-flag command configures the switch to set the managed address configuration flag in IPv6 router advertisements transmitted from the configuration mode interface. This bit instructs receptive hosts to use stateful address autoconfiguration.
	ipv6 nd ns-interval	Configures the interval between IPv6 neighbor solicitation retransmissions on an interface. Configures the other stateful configuration flag in IPv6 router advertisements	The ipv6 nd other-config-flag command configures the switch to set the other stateful configuration flag in IPv6 router advertisements transmitted from the configuration mode interface. This flag indicates the availability of autoconfiguration information, other than addresses, and that hosts should use stateful
Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 3-24.		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1329.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Cisco Nexus 7000 Series Guide, Release 6.x (2013)	Configures the amount of time that a remote IPv6 node is considered reachable after some reachability confirmation event has occurred. NX-OS Unicast Routing Configuration), at 3-24.	ipv6 nd reachable-time The ipv6 nd reachable-time command specifies the time period that the switch includes in the reachable time field of Router Advertisements (RAs) sent from the configuration mode interface. The reachable time defines the period that a remote IPv6 node is considered reachable after a reachability confirmation event. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1359.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Step 3 Max-metric router-law (external-law max-metric router-law max	The max-metric router-lea command allows the CSPFv3 protocol to advertise a maximum metric so that other poders bit not present the produce as an intermediate loop in their SPF calculations. The no max-metric router-lea and default max-metric router-lea commands disable the advertisement of a maximum metric. Platform all Command Mode Router-OSPF9 Configuration Command Syntax max metric router-lea

Copyright Registration Information	Cisco	Arista
	IS-IS Overview	IS-IS Description
	IS IS sends a hello packet out every configured interface to discover IS IS neighbor routers. The hello packet contains information, such as the authentication, area, and supported protocols, which the receiving interface uses to determine compatibility with the originating interface. The hello packets are also padded to ensure that IS-IS establishes adjacencies only with interfaces that have matching maximum transmission unit (MTU) settings. Compatible interfaces form adjacencies, which update routing information in the link state database through link state update messages (LSPs). By default, the router sends a periodic LSP refresh every 10 minutes and the LSPs remain in the link-state database for 20 minutes (the LSP lifetime). If the router does not receive an LSP refresh before the end of the LSP lifetime, the router deletes the LSP from the database.	IS-IS sends a hello packet out every configured interface to discover IS-IS neighbor routers. The hello packet contains information, which the receiving interface uses to determine compatibility with the originating interface. Compatible interfaces form adjacencies, which update routing information in the link-state database through link-state update messages (LSPs). If the router does not receive an LSP refresh before the end of the LSP lifetime, the device deletes the LSP from the database. Terms of IS-IS Routing Protocol
	The LSP interval must be less than the LSP lifetime or the LSPs time out before they are refreshed.	The following terms are used when configuring IS-IS.
	IS-IS sends periodic hello packets to adjacent routers. If you configure transient mode for hello packets, these hello packets do not include the excess padding used before IS-IS establishes adjacencies. If the MTU value on adjacent routers changes, IS-IS can detect this change and send padded hello packets for a period of time. IS-IS uses this feature to detect mismatched MTU values on adjacent routers. For more information, see the "Configuring the Transient Mode for Hello Padding" section on page 9-21. IS-IS Areas You can design IS-IS networks as a single area that includes all routers in the network or as multiple areas that connect into a backbone or Level 2 area. Routers in a nonbackbone area are Level 1 routers.	 NET and System ID – Each IS-IS instance has an associated network entity title (NET). The NET consists of the IS-IS system ID, which uniquely identifies the IS-IS instance in the area and the area ID. Designated Intermediate System – IS-IS uses a Designated Intermediate System (DIS) in broadcast networks to prevent each device from forming unnecessary links with every other device on the broadcast network. IS-IS devices send LSPs to the DIS, which manages all the link-state information for the broadcast network. You can configure the IS-IS priority that IS-IS uses to select the DIS in an area.
	that establish adjacencies within a local area (intra area routing). Level 2 area routers establish adjacencies to other Level 2 routers and perform routing between Level 1 areas (inter-area routing). A router can have both Level 1 and Level 2 areas configured. These Level 1 Level 2 routers act as area border routers that route information from the local area to the Level 2 backbone area (see Figure 9-1). Within a Level 1 area, routers know how to reach other area border routers and other Level 2 routers. Level 1/Level 2 routers know how to reach other area border routers and other Level 2 routers. Level 1/Level 2 routers straddle the boundary between two areas, routing traffic to and from the Level 2 heakbone area. Level1/Level2 routers use the attached (ATT) bit signal Level 1 routers to set a default route to this Level1/Level2 router to connect to the Level 2 area. In some instances, such as when you have two or more Level1/Level 2 routers in an area, you may want to control which Level1/Level2 router that the Level 1 routers use as the default route to the Level 2 area. You can configure which Level1/Level2 router sets the attached bit. For more information, see the "Verifying the IS-IS Configuration" section on page 9-35.	 IS-IS Areas – You can design IS-IS networks as a single area that includes all routers in the network or as multiple areas that connect into a backbone or Level 2 area. Routers in a nonbackbone area are Level 1 routers that establish adjacencies within a local area (intra-area routing). Level 2 area routers establish adjacencies to other Level 2 routers and perform routing between Level 1 areas (inter-area routing). A router can have both Level 1 and Level 2 areas configured. IS-IS Instances – Arista supports only one instance of the IS-IS protocol that run on the same node. LSP – Link state packet (LSP) can switch link state information. LSPs fall into two types: Level 1 LSPs and Level 2 LSPs. Level 2 devices transmit Level 2 LSPs; Level-1 devices transmit Level 1 LSPs; Level 1-2 devices transmit both Level 2 LSPs and Level 1 LSPs. Hello packets – Hello packets, can establish and maintain neighbor relationships.
Cisco NX-OS 6.2		Overload Bit – IS-IS uses the overload bit to tell other devices not to use the local router to forward
Effective date of registration:	Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 9-2.	traffic but to continue routing traffic destined for that local router. Possible conditions for setting the overload bit the device is in a critical condition.
11/13/2014		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1674.

Copyright Registration Information	Cisco	Arista		
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	NET and System ID	Terms of IS-IS Routing Protocol The following terms are used when configuring IS-IS. NET and System ID		
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	IS-IS uses the overload bit to tell other routers not to use the local router to forward traffic but to continue touting traffic destined for that local router. You may want to use the overload bit in these situations: The router is in a critical condition. Graceful introduction and removal of the router to/from the network. Other (administrative or traffic engineering) reasons such as waiting for BGP convergence. Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 9-4.	Overload Bit – IS-IS uses the overload bit to tell other devices not to use the local router to forward traffic but to continue routing traffic destined for that local router. Possible conditions for setting the overload bit the device is in a critical condition. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1674.		

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Specifies the number of IS-IS hello packets that a neighbor must miss before the jouter tears down an adjacency. The range is from 3 to 1000. The default is 3. Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 9-33.	Isis hello-multiplier The isis hello-multiplier command specifies the number of IS-IS hello packets a neighbor must miss before the device should declare the adjacency as down. Each hello packet contains a hold time. The hold time informs the receiving devices how long to wait without seeing another hello from the sending device before considering the sending device down. The isis hello-multiplier command is used to calculate the hold time announced in hello packets by multiplying this number with the configured isis hello-interval. The no isis hello-multiplier and default isis hello-multiplier commands restore the default hello interval of 3 on the configuration mode interface by removing the isis hello-multiplier command from running-config. Platform all Command Mode Interface-Ethernet Configuration Interface-Port-channel Configuration Interface-Port-channel Configuration Interface-VIAN Configuration Interface-VIAN Configuration Command Syntax isia hello-multiplier factor no isia hello-multiplier default isis hello-multiplier Parameters factor hello multiplier Values range from 3 to 100; default is 3 Examples These commands configure a hello multiplier of 4 for VIAN 200. switch(config) #interface vian 200 switch(config) #interface vian 200 switch(config-if-V1200) #isis hello-multiplier switch(config-if-V1200) #isis hello-multiplier Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1685.

Copyright Registration Information	Cisco	Arista
	Step 9 route-reflector-client Example: Switch(config-router-neighbor-af) # route-reflector-client Configures the device as a BGP route reflector and configures the neighbor as its client. This command triggers an automatic notification and session reset for the BGP neighbor sessions.	A route reflector is configured to re-advertise routes learned through IBGP to a group of BGP neighbors within the AS (its clients), eliminating the need for a fully meshed topology. The neighbor route-reflector-client command configures the switch to act as a route reflector and configures the specified neighbor as one of its clients. The bgp client-to-client reflection command enables client-to-client reflection.
	Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 11-33.	When using route reflectors, an AS is divided into clusters. A cluster consists of one or more route reflectors and a group of clients to which they re-advertise route information. Multiple route reflectors can be configured in the same cluster to increase redundancy and avoid a single point of failure. Each route reflector has a cluster ID. If the cluster has a single route reflector, the cluster ID is its router ID. If a cluster has multiple route reflectors, a 4-byte cluster ID is assigned to all route reflectors in the cluster. All of them must be configured with the same cluster ID so that they can recognize updates from other route reflectors in the same cluster. The bgp cluster-id command configures the cluster ID in a cluster with multiple route reflectors. Example
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014		These commands configure the switch as a route reflector and the neighbor at 101.72.14.5 as one of its clients, and set the cluster ID to 172.22.30.101. switch(config-router-bgp) neighbor 101.72.14.5 route-reflector-client switch(config-router-bgp) #bgp cluster-id 172.22.30.101 switch(config-router-bgp) # Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1549.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Static routes have a default administrative distance of 1. A router prefers a static route to a dynamic route because the router considers a route with a low number to be the shortest. If you want a dynamic route to override a static route, you can specify an administrative distance for the static route. For example, if you have two dynamic routes with an administrative distance of 120, you would specify an administrative distance that is greater than 120 for the static route if you want the dynamic route to override the static route. Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 6.x (2013), at 13-2.	Static routes have a default administrative distance of 1. Static routes with a higher administrative distance may be overridden by dynamic routing. For example, a static route with a distance of 200 is overridden by default OSPF intra-area routes (distance of 110). Route maps use tags to filter routes. Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1720.

Copyright Registration Information	Cisco	Arista	
	clear ip igmp interface statistics	clear ip igmp statistics	
Cisco NX-OS 6.2 Effective date of	To clear the IGMP statistics for an interface, use the clear ip igmp interface statistics command. clear ip igmp interface statistics ij-type ij-number	The clear ip igmp statistics command resets IGMP transmission statistic counters for the specified interface. Platform all Command Mode Privileged EXEC Command Syntax clear ip igmp statistics [INTF_ID] Parameters INTF_ID interface name. Options include: - <no parameter=""> all interfaces. interface ethernet e num Ethernet interface specified by e_num. interface oppoback I_num Loopback interface specified by l_num. interface management m_num Management interface specified by m_num. interface port-channel p_num Port-channel interface specified by p_num. interface vlan v_num VALAN interface specified by v_num. interface xlan vx_num VXLAN interface specified by vx_num. Examples This command resets IGMP transmission statistic counters on Ethernet 1 interface. switch#clear ip igmp statistics interface ethernet 1 awitch# Arista User Manual v. 4.14.3F — Rev. 2 (October 2, 2014), at 1794.</no>	
registration: 11/13/2014	Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference (2013), at 6.		

Copyright Registration Information	ip igmp snooping last-member-query-interval			Arista	
				ip igmp last-member-query-interval	
		last-member-quer this command. ip igmp snoop	ry interval in which the software removes a group, use the ip igmp snooping y-interval command. To reset the query interval to the default, use the no form of the interval and interval interval interval.	sending group-specific or group-source-specific query messages from the configuration mode interface. When a switch receives a message from a host that is leaving a group it sends query messages at intervals set by this command. The ip igmp startup-query-count specifies the number of messages that	
	Syntax Description		Query interval in seconds. The range is from 1 to 25. The default is 1.	are sent before the switch stops forwarding packets to the host. If the switch does not receive a response after this period, it stops forwarding traffic to the host on behalm of the group, source, or channel.	
	Defaults	The query interval	is 1.	The no ip igmp last-member-query-interval and default ip igmp last-member-query-interval commands reset the query interval to the default value of one second by removing the ip igmp last-member-query-interval command from running-config.	
	Command Modes	Configure VLAN (on (config-vlan) until Cisco NX-OS Release 5.1. config-vlan-config) since Cisco NS-OS Release 5.1(1). You cannot configure th LAN configuration mode in Cisco Release NX-OS 5.1 and higher.	Interface-VLAN Configuration	
	SupportedUserRoles	network-admin vdc-admin		ip igmp last-member-query-interval period no ip igmp last-member-query-interval default ip igmp last-member-query-interval	
	Command History	Release NX-OS 5.1(1) 4.0(1)	Modification The mode to configure this command on a VLAN changed to the configur VLAN mode (config-vlan-config)#. You can no longer configure this command in the VLAN configuration mode (config-vlan)#. This command was introduced.	Parameters • period transmission interval (deciseconds) between consecutive group-specific query messages. Value range: 10 (one second) to 317440 (8 hours, 49 minutes, 4 seconds). Default is 10 (one second Example	
	Usage Guidelines	See the Layer2 Cor	s not require a license. mmand Reference Guide for information on entering the Configure VLAN mode iguration command.	• This command configures the last member query interval of 6 seconds for VLAN interface 4. switch(config) #interface vlan 4 switch(config] if-Vl4) #ip igmp last-member-query-interval 60 switch(config-if-Vl4) #	
	Examples	switch(config)# v	rs how to configure a query interval in which the software removes a group: rlan configuration 10 an-config) # [ip igmp] snooping last-member-query-interval] 3 an-config) #	Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1799.	
Cisco NX-OS 6.2		switch(config)# v	s how to reset a query interval to the default: rlan configuration 10 un-config) # no ip igmp snooping last-member-query-interval un-config) #		
Effective date of egistration:	Cisco Nexus 7000 Series NX-OS Multicast Routing Command		E		
11/13/2014	Reference (2013), at 86.				

Copyright Registration Information		Cisco	Arista ip igmp snooping querier startup-query-count		
	ip igmp sno	poping startup-query-count			
		To configure the number of queries sent at startup, use the ip igmp snooping startup-query-count command. To return to the default settings, use the no form of this command. ip igmp snooping startup-query-count value no ip igmp snooping startup-query-count value	The ip igmp snooping querier startup-query-count command configures the global startup query count value. The startup query count specifies the number of query messages that the querier sends on a VLAN during the startup query interval (ip igmp snooping querier startup-query-interval). When snooping is enabled, the group state is more quickly established by sending query messages at a higher frequency. The startup-query-interval and startup-query-count parameters define the startup period by defining the number of queries to be sent and transmission frequency for these messages.		
	Syntax Description	value Count value. The range is from 1 to 10.	VLANs use the global <i>startup query count</i> value when they are not assigned a value (ip igmp snooping vlan querier startup-query-count). VLAN commands take precedence over the global value. The default global value is specified by the robustness variable (ip igmp snooping robustness-variable).		
	Defaults	None	The no ip igmp snooping querier startup-query-count and default ip igmp snooping querier startup-query-count commands restore the default startup-query-count value by removing the corresponding ip igmp snooping querier startup-query-count command from running-config.		
	Command Modes	VLAN configuration (config-vlan)	Platform all Command Mode Global Configuration		
	SupportedUserRoles	network-admin vdc-admin	Command Syntax ip igmp snooping querier startup-query-count number no ip igmp snooping querier startup-query-count default ip igmp snooping querier startup-query-count		
	Command History	Release Modification NX-OS 5.1(1) This command was introduced.	Parameters • number global startup query count. Value ranges from 1 to 3.		
	Usage Guidelines	This command does not require a license.	 These commands configure the global startup query count value of 2, then displays the status of the snooping querier. 		
	Examples	This example shows how to configure the number of queries sent at startup: switch(config)* vlan configuration 10 [switch(config]-vlan-config[* ip igmp snooping startup-query-count 4 switch(config-vlan-config)*	<pre>switch(config) #ip igmp snooping querier startup-query-count 2 switch(config) #show ip igmp snooping querier status Global IGMP Querier status admin state : Disabled source IP address : 0.0.0.0 query-interval (sec) : 125.0</pre>		
	Related Commands	Command Description show ip igmp snooping Displays IGMP snooping information.	max_response-time (sec) : 10.0 querier timeout (sec) : 255.0 last-member-query-interval (sec) : 1.0		
Sano NV OS 62		7000 Series NX-OS Multicast Routing Command 2013), at 104.	last-member-query-count : 2 (robustness) startup-query-interval (sec) : 31.25 (query-interval/4) startup-query-count : 2 Vlan Admin IP Query Response Querier Operational Ver State Interval Time Timeout State		
ffective date of egistration:			1 Disabled 0,0,0.0 125.0 10.0 255.0 Non-Querier v2 100 Disabled 0.0,0.0 125.0 10.0 255.0 Non-Querier v2 101 Disabled 0.0,0.0 125.0 10.0 255.0 Non-Querier v2		
1/13/2014			Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1813.		